STRONG
DIGITAL TV

Digital Terrestrial Receiver SRT 5003

Picture similar

User manual
Bedienungsanleitung
Manuel d'Utilisateur
Manuale Utente
Manual del usuario
Návod k obsluze
Upute za korištenje

Digital Terrestrial · 1000 Channels · TV Info · Digital Audio · Subtitles · Tele Text · Man./Auto Search · JPEG · MP3/WMA · MPEG · 8 Favourite lists · Parental Lock · 0.97 Watt Stand-by

DVB Digital Video Broadcasting

www.strong.tv

Fig. 1

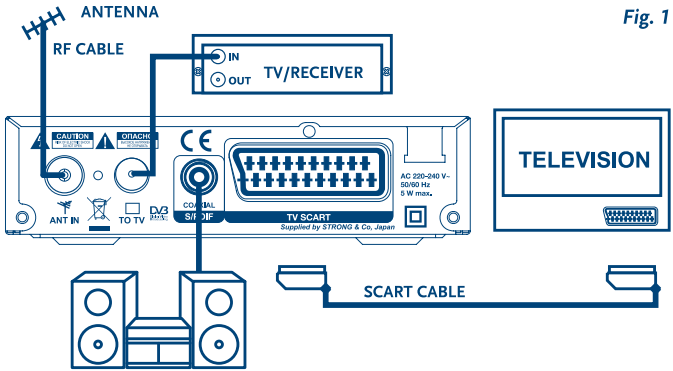


Fig. 2

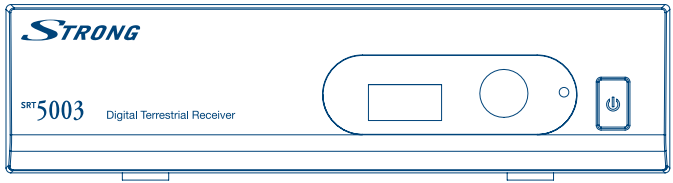


Fig. 3

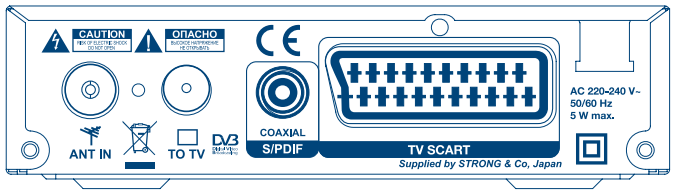
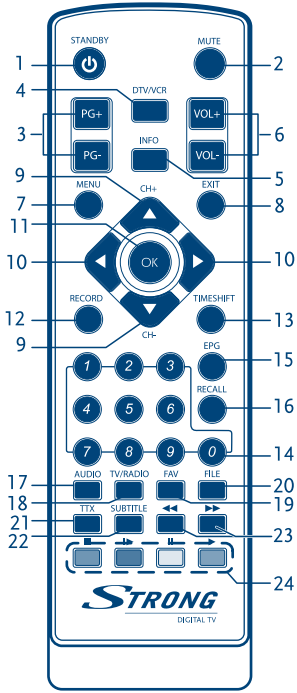


Fig. 4


STANDBY
MUTE
1
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DTV/VCR
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VOL+
3
6
INFO
PG-
VOL-
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CH+
EXIT
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STRONG declares that this item complies with the basic requirements and other relevant regulations of directives
CE 2004/108/EEC and 73/23EEC; RoHS 2002/95EEC

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HOTLINE

0180 501 49 91*
* €0,14/Min. from German wired line
* €0.42/Min. max. from mobile network

0820 400 150*
* €0,12/Min. from Austrian wired line

0826 029 928*
* €0,14/Min. from French wired line

per March 2010

1.0 INSTRUCTION

1.1 Safety Instructions

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of not isolated dangerous voltage with the inside of the product that may be of sufficient magnitude to constitute a risk of electric shock to persons.
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in the literature accompanying the appliance.
Read All Instructions - Before you use the product, read all operation instructions, For more information on accessories such as the lithium ion battery, refer to the manuals provided with those products.
Save These Instructions- Save all safety and operating instructions for future reference.
Heat Warnings - Read carefully and follow all warning labels on the product and those described in the instructions.
Follow Instructions- Follow all instructions provided with this product.
Cleaning-Always unplug this product from the wall outlet before cleaning. Use only a damp cloth for cleaning. Never use any type of liquid or aerosol cleaner, or any type of organic solvent to clean this product.
Attachments-For your safety, and to avoid damaging the product, use only accessories recommended by STRONG.
Water and Moisture- Never use this product around water (near a bathtub, kitchen sink, laundry tub, wet basement. swimming pool or in the rain)
Location-To avoid damage to the product and prevent personal injury, never place this product on an unstable stand, tripod, bracket, Follow the instructions that describe how to safely mount the product, and use only the mounting devices recommended by the manufacturer.
Power Sources-Connect this product only to the power source described on the product label. If you are not sure about the type of power supply in your home, consult your local power company. Refer to instruction pages for information on using the product with a battery.
Grounding, Polarization- If this product is used with a specified AC adapter, the adapter may be equipped with a polarized alternating current line plug (a plug with one blade wider than the other). This safety feature allows the plug to fit into the power outlet only one way, If you cannot insert the plug into the wall outlet, pull it out, reverse it, and have the receptacle replaced.
Protecting the Power Cord - The power supply cord should be placed so it will not be walked on. Never put a heavy object on the power cord or wrap it around the leg of a table or chair. Keep the area around the power cord connection points, at the power outlet, and at the product connection, free of all AC adapter or accessory power cords.

GENERAL PRECAUTIONS - SAFETY PRECAUTIONS

Lightning- If a lightning storm occurs while using a specified AC adapter, remove it from the wall outlet immediately. To avoid damage from unexpected power surges, always unplug the AC adapter from the power outlet and disconnect it from the receiver when the receiver is not in use.
Overloading-Never overload wall outlets, extension cords, power strips, or other power connection points with too many plugs.
Foreign Objects, Liquid Spillage-To avoid personal injury caused by fire or electrical shock from contact with internal high voltage points, never insert a metal object into the product. Avoid using the product where there is a danger of spillage.

Heat-Never use or store this product near any heat source such as a radiator heat register, stove, or any type of equipment or appliance that generates heat, including stereo amplifiers.
Servicing-Refer all servicing to qualified personnel. Attempting to remove the covers or disassemble the product, could expose you to dangerous high voltage points.
Damage Requiring Service- If you notice any of the conditions described below while using a specified AC adapter. unplug it from the wall outlet and refer servicing to qualified service personnel:

1. Liquid has been spilled onto the product or some other object has fallen into the product.
2. The product has been exposed to water.
3. The product does not operate normally despite following operating instructions. Adjust only the controls described in the operating instructions ad improper adjustment of other controls could damage the product and require extensive repair word by a qualified technician.
4. The product has been dropped or damaged in any way.
5. The product exhibits distinct change in performance.

Replacement Parts-When replacement parts are required, mare sure that the authorized service centre uses only parts with the same characteristics as the originals, as recommended by the manufacturer. Unauthorized substitution of parts could result in fire, electrical shock, or create other hazards.
Safety Check-Upon completion of servicing or repairs, ask the service technician to perform safety checks to determine that the product is in good working order.
Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
Where the mains plug or all-pole mains switch is used as the disconnect device, the disconnect device shall remain readily operable.

1.2 Storage

Your receiver and its accessories are stored and delivered in a packaging designed to protect against electric shocks and moisture. When unpacking it, make sure that all the parts are included and keep the packaging away from children.
When transporting the receiver from one place to another or if you are returning it under warranty make sure to repack the receiver in its original packaging with its accessories. Failing to comply with such packaging procedures could void your warranty.

1.3 Equipment Set-up

We recommend you consult a professional installer to set up your equipment. Otherwise, please follow these instructions carefully:
Refer to the user manual of your TV and your antenna.
Make sure that the SCART cable and outdoor components of the antenna are in a good condition and the SCART connections are well shielded.
This manual provides complete instructions for installing and using this receiver.
The following symbols will serve as follow.

WARNING	Indicates warning information.
TIPS	Indicates any other additional important or helpful information.
MENU	Represents a button on the remote control or the receiver **(Bold Character)**
Move to	Represents a menu item within a window. *(Italic Character)*

1.4 Accessories:

1. 1 User Manual
2. 1 Remote control unit
3. 2x Batteries (AAA type)

NOTE: The batteries should not be recharged, disassembled, electrically short-circuited or be mixed or used with other types of batteries.
If rechargeable accumulators instead of batteries are going to be used, we recommend using (e.g. NiMH) types with low self-discharge to ensure long time operation of remote control.

2.0 CONNECTION

2.1 Connecting to TV and Terrestrial Antenna

To receive the broadcast signal, the terrestrial antenna cable should be connected to the ANT IN connector at the back of the receiver. ***(Fig. 1)***

2.2 Connecting to a Digital Audio Amplifier

Connect your Digital Audio Amplifier with the S/PDIF connector on the back of the receiver ***(Fig. 1).***

3.0 YOUR RECEIVER

3.1 Front Panel

Fig. 2

1. **USB** Connects to USB device

3.2 Rear Panel

Fig. 3

1. **ANT IN** To connect an antenna for reception of broadcasting signal.
2. **TO TV** To connect a TV set or to connect an extra receiver.
3. **S/PDIF Coaxial** To connect your receiver to digital audio amplifier.
4. **TV SCART Connector**
   To connect your receiver with your TV set using a SCART cable.
5. **Power Cord**

Your receiver requires a voltage of 220-240V AC (Auto-selectable), 50/60Hz +/-5%. Make sure to check the power specification before connecting your receiver to the wall outlet.

3.3 Remote Control

Fig. 4

1. ⏻ Turns the receiver On/Standby
2. Mutes audio output of the receiver
3. **PG+/PG-** Page up/down
4. **DTV/VCR** No function

5.	**INFO**	Shows the actual channel information
6.	**VOL+/VOL-**	Volume up/down
7.	**MENU**	Opens the main menu/In menu you will get one step back
8.	**EXIT**	Exits from the menu or sub-menu
9.	▲▼	*Menu Off*: Change channel to previous/next. *Menu On:* Moves the cursor up/down.
10.	◀▶	*Menu Off*: Increases/decreases the volume level. *Menu On:* Change settings for specific Menus
11.	**OK**	*Menu On:* Activates the highlighted menu item. *Menu Off*: Displays the current channel list
12.	**RECORD**	No function
13.	**TIMESHIFT**	No function
14.	**0–9**	Channel selection or value input
15.	**EPG**	Shows the EPG (Electronic Program Guide) in TV mode
16.	**RECALL**	Back to previous shown channel
17.	**AUDIO**	Sets the current audio channel to left, right or stereo
18.	**TV/RADIO**	Toggles between TV or RADIO mode
19.	**FAV**	Favourite group selection
20.	**FILE**	no function
21.	**TTX**	Shows Teletext on OSD (On Screen Display)
22.	**SUBTITLE**	Shows list of subtitled languages
23.	◀◀ ▶▶	Fast forward/rewind of video files
24.	**COLOURED BUTTONS** for Teletext and other functions	

3.4 Default PIN - code: 0000

4.0 FIRST TIME INSTALLATION

If you use the receiver for the first time, the "*Easy Install*" menu appears. Use ▼▲ to select *Region, OSD Language, Antenna Power* and *Scan Mode* and ◀▶ to select options. Then use the ▼▲ buttons to move focus to *Search* and press **OK** to proceed with the automatic channel scan.

5.0 MAIN MENU

In viewing mode always press **MENU** to enter the Main Menu. It consists of following submenus: *Channel, Installation, Setup, Tools* and *Media+*

5.1 Channel

1. Use the ▼▲ buttons to select *Channel* and press **OK** to enter.
2. Use the ▼▲ buttons to highlight the desired item and press **OK** to select.
3. Press **EXIT** to exit.

NOTE: You can also press **OK** in TV mode to enter channel list.

5.1.1 TV Channel list

1. In *Channel* submenu select *TV Channel List* with the ▼▲ buttons and press **OK** to enter.
2. Use the ◀▶ buttons to change channel group (assumed you have already set up Favourite groups).
3. With the ▼▲ buttons select the channel you want to watch. With **OK** you can watch the selected channel in full screen mode.

Edit

Use this menu to favour, lock, skip, delete and rename channel list. Press numeric button **[1]** to enter edit menu.

With the ▼▲ buttons highlight a channel and press **OK** to select or press numeric button **[0]** to select all channels. Selected channels will get marked. This way of selection can be executed for each of the edit functions.

Favor:	To add selected channel or all channels to a favourite group, press the 1 button. Use the ▼▲ to select a desired group and press **OK**. With ◀▶ select *Yes* in the confirmation window and press **OK** to save. Selected channels will get marked with folder symbol.
Lock:	To Lock channel or all channels press button **[2]**, with ◀▶ select *Yes* in the confirmation window and press **OK** to save. Selected channel/s will get marked with the 🔒 symbol.
Skip:	To Skip channel or all channels press button **[3]**, with ◀▶ select *Yes* in the confirmation window and press **OK** to save. Selected channel/s will get marked with the ➥ and will be skipped during channel zapping in full screen mode.
Delete:	To Delete channel or all channels press button **[4]**, with ◀▶ select *Yes* in the confirmation window and press **OK** to save.
Rename:	To Rename a channel press button **[5]**

If you have done all modifications concerning channel editing, press **EXIT** to cancel.

Find

Press the **[2]** button in to enter *Find* menu. Use the ▼▲◀▶ buttons to highlight desired letters or numbers and press **OK** to insert. After each character, the channel list will search the channel according your input and list the matched channel.

Press **EXIT** to quit Find mode.

Sort

Press the **[3]** button in to enter *Sort* menu.

Use the ▼▲ buttons to highlight desired sort way and press **OK** to confirm.

Default:	Sorting by searched Order (from lowest to highest frequency).
Name (A-Z):	Sorting in Alphabetical Order.
Name (Z-A):	Sorting in Alphabetical Order.
FTA:	First in the list will be Free-To-Air channels.
Lock:	First will be listed all unlocked and then the locked channels at the end.

Move
Press the **[4]** button to activate the Move function.
The selected channel will be marked in a symbol ▲▼, use the ▼▲ buttons to move the selected channel to the desired position. Press **OK**, with ◀▶ select *Yes* in the confirmation window and press **[4]** to save.

5.1.2 Radio Channel list
Basically, the operation of *Radio Channel List* is the same as in *TV Channel List* only difference is that in *Radio Channel List* there is no video information, so it will always display the radio logo at the right preview screen.

5.1.3 Delete all Favourites and Groups
Use this menu to delete all favourite channels. Select *Delete All Favourites* with the ▼▲ and press **OK**, with ◀▶ select *Yes* in the confirmation window and press **OK** to delete or select *No* to cancel.

5.1.4 Delete all
Use this menu to delete all channels. Select *Delete All* with the ▼▲ and press **OK**, then enter the Password (default:0000). In the confirmation window select *Yes* with ◀▶ and press **OK** to delete or select *No* to cancel.

5.1.5 Group Rename
In this menu you can change favourite group name. Use the ▼▲ buttons to select *Group Rename* and press **OK** to enter.

1. With the ▼▲ buttons select a group and press **OK**.
2. At the appearing Keyboard use the ▼▲◀▶ buttons to highlight desired letters or numbers and press **OK** to insert. After you entered desired group name, highlight **OK** at the keyboard to confirm
3. Press **EXIT** button to cancel the group rename.

5.2 Installation

5.2.1 Auto Scan
1. Use the ▼▲ buttons to select *Installation*, press **OK** button to enter menu.
2. With the ▼▲ buttons select *Auto Scan*, press **OK** to enter the menu.
3. Press the ◀▶ buttons to change Scan mode, and use the ▼▲ to highlight *Search*, press **OK** to start auto scan.

5.2.2 Channel Scan
1. Use the ▼▲ buttons to select *Installation*, press **OK** to enter the menu.
2. With the ▼▲ buttons to select *Channel Scan* and press **OK** to enter the menu.
3. Use the ◀▶ buttons to select one of two Scan Modes – *By Channel* and *By Frequency*.
4. When *By Channel* is selected use the cursor buttons to select *Scan Band* and *Channel No.*. When *By Frequency* is selected use the cursor buttons to select Frequency and Bandwidth. Select *Network Search* to *ON* or *OFF*, highlight *Search* and press **OK** to

start scan. After Channels are found, they will be stored and receiver switches to the first one saved in the list.

5.2.3 Antenna Setting

1. Press **MENU** to enter main menu.
2. Use the ▼▲ buttons to select *Installation*, press **OK** to enter the menu.
3. With the ▼▲ buttons select *Antenna setting* and press **OK** to enter.
4. Press the ◀▶ buttons to change setting. If *On* is selected, the receiver will provide 5V antenna power (for active antennas).
5. Press **EXIT** button to exit.

5.2.4 LCN Mode

If LCN (Logical Channel Numbering) is activated and LCN signal is provided by operator, then channels will be stored at operator defined order. You can activate/deactivate the LCN function by setting the "*LCN Mode*" to *ON*/*OFF*.

5.3 Setup

This menu allows you to set *OSD Language, Subtitles preference, TV System, Region and Time, Timer Setting, OSD Setting* and *Parental Lock*.

1. Press ▲▼ buttons to highlight desired menu and press **OK** button to enter the setting menus. Then press ▲▼ buttons to select desired item. Settings can be changed by pressing ◀▶ buttons. You can get better overview if press **OK** first. Now you can select desired setting by ▲▼ buttons and confirm it with **OK**.
2. Press **EXIT** button to exit.

5.3.1 OSD Language

This menu allows you to set OSD Language.

5.3.2 Subtitles preference

This menu allows you to set preferred *Subtitles Language* and select *Subtitles Type* between Normal and Hard of Hearing.

5.3.3 TV System

This menu allows to setup different settings concerning your TV set.

Display Mode:	PAL/NTSC/AUTO
Aspect Ratio:	Use this menu to configure the screen aspect between: *4:3PS (Pan&Scan)*, *4:3LB (Letter Box)*, *16:9 (Wide Screen)*, and *AUTO*.
Video Output:	Use this menu to switch the video output mode either to RGB or to CVBS

5.3.4 Region and Time

Here you can set your region and time zone.

Region:	This menu is used for changing the region setting.
GMT Usage:	This menu is used for usage of GMT. The options are: Off / User Define / By Region

GMT Offset: This menu is valid only when selected "*User Define*" in *GMT Usage* menu. The GMT offset range is "*-11:30 ~ +12:00*", increasing by half hours progressively.

Date/Time: "*Date*" and "*Time*" menus are valid only when selected "*Off*" in *GMT Usage* menu. Press **OK** then numeric button to change the date and time.

Time Display: This menu allow to control whether the time is displayed on screen or not. The options are: *Off*/*On*.

5.3.5 Timer Setting

In this menu you can set a programme timer or sleep timer.

Programme timer

Timer Number: You can set 8 timers

Timer Mode: Off/Once/Daily/Weekly/Monthly

Timer Service: TV Service/Radio Service

Wake-up Channel: You can select a desired channel as wake-up channel.

Month/Date/Day: Press ▲▼ buttons to select your desired month, date and day.

Time: Press **OK** to input the time with the numeric buttons.

When you want to quit programme timer, a saving window appears, with ◀▶ select *Yes* in the confirmation window and press **OK** to save or select *No* to cancel.

Duration: Press **OK** to input desired duration with the numeric buttons.

Sleep Timer

You can set the receiver to power OFF in 10 min, 30min, 60min, 90min and 120min automatically.

5.3.6 OSD Setting

This menu allows you to change settings for: *Subtitle Display, OSD Transparency* and *Load Default OSD Setting.*

Subtitle Display: To set the subtitle to Standard or OFF.

OSD Transparency: To set the OSD transparency from Off ~ 50%.

OSD Timeout: To define how long the information banner is to be shown (5S~10S)

Load Default OSD Setting: To clear all OSD settings and reset to default value.

5.3.7 Parental Lock

This menu allows you to protect the installation menu, or channels with a password and you can change the Password. If you want to enter the menu you will be asked to input the password (default:0000).

Menu Lock: Locks the installation menu. You can set menu lock to ON/OFF.

Channel Lock: Off/Manual/Age:4 - Age:18

New Password: To change the password.

Confirm Password: To confirm the new password.

5.3.8 Auto Standby

This option allows you to enable or disable *Auto Standby*. The default setting for *Auto Standby* is *ON*. The receiver will switch to standby automatically when it doesn't receive commands from the remote control for three hours. To avoid the automatic switch off, set *Auto Standby* to *OFF*.

5.4 Tools

Press **MENU** button to enter Main Menu. Select "*Tools*" with the ▲▼ buttons and press **OK** to enter.

1. Press ▲▼ buttons to highlight the desired menu and press **OK** to enter.
2. Press **EXIT** button to exit.

5.4.1 Receiver Information

This menu displays some Receiver information like Receiver Model, Software, Signature, and our Website www.strong.tv.

1. In *Tools* menu, select "*Receiver Information*" and press **OK** to open receiver information.
2. Press **EXIT** button to exit.

5.4.2 Game

This menu allows you to play games (Tetris, Snake and Othello) on this receiver.

1. Select "*Game*" in *Tools* menu and press **OK** button to enter game menu.
2. Press ▲▼ buttons to select a desired game, and press **OK** to enter the game. Highlight "*Start*" and press **OK** to start the game. For changing levels highlight "*Setup*" and use ◀▶ buttons.
3. Press **EXIT** button to quit the game

NOTE: You can also press **OK** button to pause playing

5.4.3 Load Factory Default

This menu allows you to reset the receiver back to factory settings, which clears all stored channels.

NOTE: This option will delete all your settings and channel lists and set your receiver to factory default!

1. Enter "*Tools*" menu, select "*Load Factory Default*" and press **OK** button, you are asked to input password.
2. Input a correct password using the numeric buttons (the default password is "*0000*"), a confirmation window is displayed.
3. Select "*Yes*" to return back to factory settings and clear all channels. Select "*No*" to cancel.
4. Press **EXIT** button to exit.

5.4.4 Software Upgrade

1. Enter "*Tools*" menu, select "*Software Upgrade*" and press **OK** button, *Software Upgrade* menu is shown.

2. Press ▲▼ buttons to select "*Upgrade by Storage*" item and press **OK** button, you are asked to input password.
3. Input the correct password (the default password is 0000), *Software Upgrade* submenu is opened. Then select the correct software file and press **OK** to start. Message will be displayed to confirm update process, select "*Yes*" to confirm or "*No*" to cancel.
4. Press **EXIT**" button to exit.

WARNING: After an update the receiver restarts automatically! During this process NEVER disconnect the receiver from the main or switch power OFF! This can damage your receiver and warranty will void!

NOTE: This receiver has foreseen an over the air update function, which might not be available at your local broadcast conditions. For further details visit our website www.strong.tv or contact your local Serviceline.

5.5 Media+

Select "*Media+*" and press **OK** button to enter *Media+* menu.

1. Press **MENU** button to enter main menu. Select "*Media+*" and press **OK** button to enter *Media+* menu.
2. Press ▲▼ buttons to highlight desired menu and press **OK** button to enter.
3. Press **EXIT** button to exit.

Use the two button rows in bottom of RCU for Player operation. Description for usage of buttons will be displayed on screen.

5.5.1 Media Player

This function allows you to play MPEG1 and MPEG2 video, Audio and Photo files from connected USB device

1. In "*Media+*" menu, select "*Media Player*" and press **OK** button to enter *Media Player* menu.
2. Press ▲▼ buttons to select a desired item, and press **OK** or **PLAY** button to play the desired files.
3. Press **EXIT** button to exit.

5.5.2 Safely Remove Storage Device

In "*Media+*" menu, select "*Safely Remove Storage Device*" and press **OK** button to safely remove the USB device. Then a message is displayed.

6.0 OPERATION

6.1 Changing Channels

There are 4 ways of channel selection - stepping through the channel list, selection by number, from the on-screen channel list, and using the electronic programme guide (EPG).

Stepping through the channel list

To move through the channel list, press the ▲▼ buttons on the remote control.

Selected by number
Enter the channel number directly by pressing numeric buttons, and press the **OK** button to select desired channel.

Selected by on-screen channels list
You can also select the required channel directly from on-screen channel list. This is displayed using the receiver's main menu. See chapter 5.1.1 TV Channel list in this manual for operation detail. Alternatively you can call up channel list by pressing **OK** in viewing mode.

Selected by EPG
You can also select the required channel directly from electronic programme guide (EPG).
This is displayed by pressing EPG button on remote control. See in the below chapter of this manual for operation detail.

6.2 Accessing the Electronic Program Guide (EPG)

1. Press EPG button to enter EPG menu.
2. Press numeric button **[2]** to switch between channel list, events schedule of the selected channel and now/next events.
3. In the event schedule, press numeric button **[3]** to book the selected event, press **OK** to open the Detail menu for the selected event.
4. Press numeric button **[1]** to open the Booking list menu.

6.3 Accessing the favourite channels

1. Press **FAV** button to enter favorite group menu.
2. Press ▲ or ▼ cursor buttons to select the desired favourite group.
3. Press **OK** button to enter the favorite channels list, and press ▲▼ buttons to select the favourite channel.

7.0 TROUBLE SHOOTING

There may be various reasons for the abnormal operation of the receiver. Check the receiver according to the procedures shown below. If the receiver does not work properly after checking it, please contact your local Serviceline or STRONG dealer. Alternatively you can send a support mail via our website: www.strong.tv. Do NOT open the receiver cover. It may cause a dangerous situation and the warranty will get void.

Problem	Possible cause	What to do
LED indicator not lit	Mains lead unplugged	Check mains lead
No signal found	Aerial is disconnected Aerial is damaged/misaligned Out of digital signal area Active antenna requires to switch ON antenna power/external feed	Check aerial lead Check aerial Check with dealer Switch receiver's Antenna Power ON/ connect external feed
No picture or sound on TV	Scart/ AV is not selected on your TV TV is not switched on	Switch to correct TV input Switch TV on

Problem	Possible cause	What to do
Scrambled channel message	Channel is scrambled	Select alternative channel
No response to remote control	Receiver off Remote not aimed correctly Front panel obstructed Remote batteries exhausted	Plug in and turn on plug Aim remote at front panel Check for obstructions Replace remote batteries
Forgotten PIN code		Contact local Service Hotline or send email to our Support via www.strong.tv
After moving the receiver to another room \area you are no longer able to receive digital reception	Antenna signals are too weak	Press 3 x **INFO** button on remote for call signal bars and adjust antenna for (maximum) reception or rescan channels
The receiver switches off automatically.	Auto Standby function enabled.	Disable auto standby. See section 5.3.8 for details.

8.0 SPECIFICATIONS

Demodulator:

Demodulator:	COFDM; 16 QAM/64 QAM
Transmission mode:	2 K - 8 K

Video Decoder:

Profile level:	MPEG-2 MP@ML
Video resolution:	720 x 576 pixels (PAL), 720 x 480 (NTSC)
Decoding & Video Out:	PAL & NTSC
Aspect ratio:	4:3, 16:9

Audio Decoder:

MPEG MusiCam Layer 2	
Sampling rate:	32, 44.1, 48 kHz
Audio mode:	Stereo, Joint Stereo, Dual Mono, Mono

Tuner:

Front End:	DVB-T, UHF & VHF Tuner
Input frequency range:	174 ~ 230 MHz (VHF) and 470 ~ 862 MHz (UHF)
Loop through frequency range:	47 ~ 862 MHz
Input signal level:	-82 ~ -20 dBm

Multimedia:

Video playback:	MPEG-1 and MPEG-2 encoded (mpg)
Audio playback:	MP3 and WMA formats
Picture view:	JPEG format

Memory and System:

Flash memory:	1 MByte
SDRAM:	8 MBytes

Connectors:

ANT IN:	IEC Female
TO TV:	IEC Male
TV SCART (RGB, CVBS)	
S/PDIF:	coaxial output
USB port:	max. 5 V/500 mA

General Data:

Supply Voltage:	220 – 240 V AC (SMPS), 50/60 Hz
Power Consumption:	4.20 W (typ.), 5 W (max)
Power consumption in Standby:	0.97 W
Operating Temperature:	0 ~ 40 °C
Storage Temperature:	-30 ~ 80 °C
Operating Humidity Range:	10 ~ 85 %, RH, Non-condensing
Size (WxDxH) in mm:	138 x 115 x 40
Net-weight:	0.54 kg